

Ø2.156, Ø.096 CROSS SEC. CHRISTOPHER SEALS #V75-136

B/O

ASS\

-23

O-RING

VITON

APPROVED:

SCALE

GILBERT

1:4

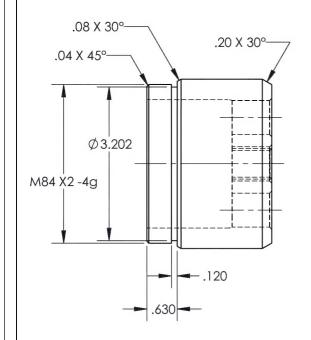
AW139

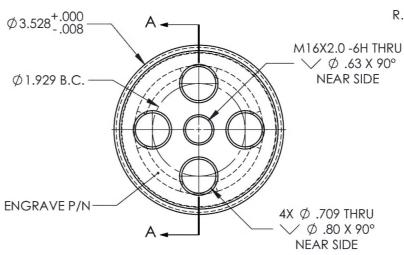
SHEET 1 OF 10

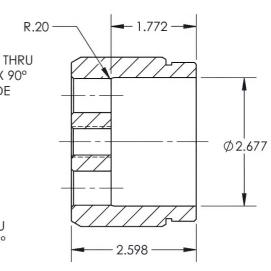
10/5/2010

	revisions										
REV	ECR	DATE	INITIAL	APPROVED							
1		-1 CH'D DIM WAS M16 X 1 IS M16 X 2, ADDED MISSING DIM B.C. Ø1.929.	9/28/2012	RJC	GE						
3	15-0336	-1 CH'D ENGRAVE NOTE WAS ENGRAVE T/N, S/N, MADE IN USA IS ENGRAVE P/N.	10/14/2015	RJC	JAG						
5	17-0044	-1 CH'D THREAD CALL OUT WAS M84 X 2 IS M84 X2 -4g, WAS M16X2.0 -2B THRU IS M16X2 -6H THRU.	4/14/2017	RJC	JAG						









SECTION A-A

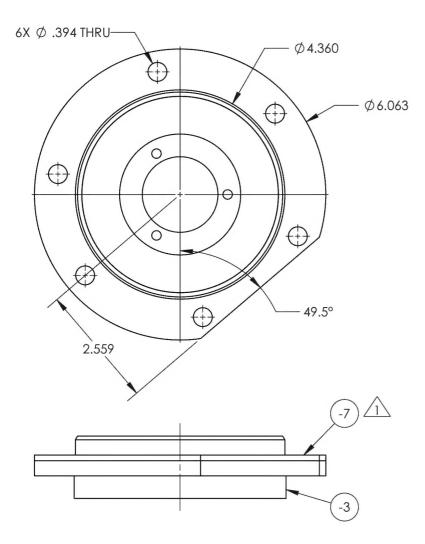
TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

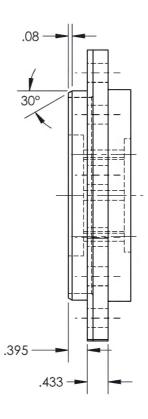
DWG NO. RBW6522A00231-W142AJ-3T-1 5

						0		
MAT'L 6061	MAT'L 6061				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
HEAT TREAT	HEAT TREAT				FRACTIONS ± 1/8	:5		
FINISH BLACK	FINISH BLACK ANODIZE				ANGLES ±.5° SURFACES = 1:	25/		
SPEC MIL-A-8625, TYPE II, CLASS II			1. BREAK AL	.X ± .1 SURFACES = 1: 1. BREAK ALL SHARP EDGES				
DRAWN BY: PERRITT				.015 x 45° C	OR .015R NAL LIMITS APPLY			
CHECKED:	CLOUGH	1		AFTER PLA	ATING			
OPPS APPR:	ANDERS	SON		ASME Y14.	T DIM AND TOL PER 5M-2009			
QA APPR:	QA APPR: LINDSAY				USED ON MODEL			
APPROVED: GILBERT					AW139			
SCALE 1:8		DATE	10	/5/2010	SHEET 2 OF	10		

RECEIVER

REVISIONS									
REV	ECR	DATE	INITIAL	APPROVED					
3	15-0336	-2 ADDED ASSEMBLY FOR FINAL MACHINING OF -7, ADDED NOTE 1.	10/14/2015	RJC	JAG				
4	16-0250	-2 CH'D DIM WAS Ø4.402 IS Ø4.360; ADDED DIM .395.	12/5/2016	SM	JAG				







ASSEMBLE -7 ONTO -3. MACHINE -7 TO FINAL DIMENSIONS AS SHOWN USING -3 AS TEMPLATE.

DART

TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

DWG NO. RBW6522A00231-W142AJ-3T-2 5

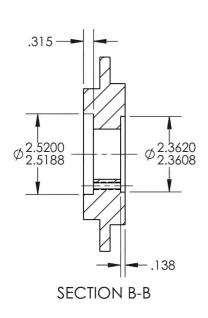
IXL	7 7 7 0 0 0 2	2/ (0	OZ	JI **!¬	2/13 01 2 5		
MAT'L					S OTHERWISE SPECIFIED		
HEAT TREAT					NSIONS ARE IN INCHES FRACTIONS ± 1/8		
FINISH				.XX ± .01	ANGLES ±.5° SURFACES = 125/		
SPEC	SPEC				L SHARP EDGES		
DRAWN BY:	DRAWN BY: CLOUGH			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH	1		AFTER PLATING			
OPPS APPR: ANDERSON				3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009			
QA APPR:	LINDSAY			USED ON MODEL			
APPROVED:	GILBERT			AW139			
SCALE	1.2	DATE	10/	14/2015	SHEET 3 OF 10		

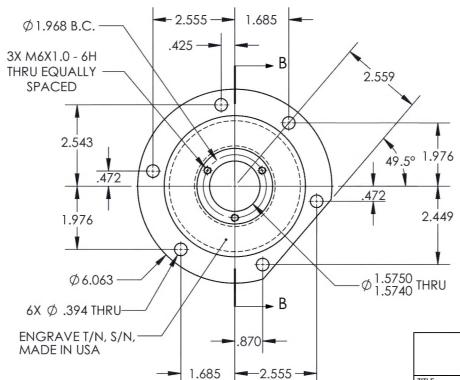
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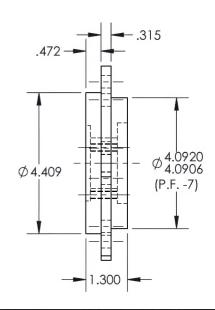
BASE PLATE ASSEMBLY

	REVISIONS .								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
4	16-0250	-3 CH'D DIM WAS Ø4.1340/4.1326 IS Ø4.0920/4.0906 (P.F7).	12/5/2016	SM	JAG				









TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

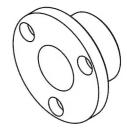
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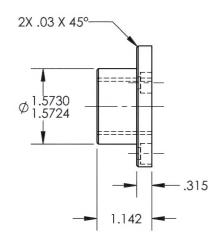
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MAT'L 6061				UNLESS OTHERWISE SPECIFIED			
HEAT TREAT			.xxx ± .0	MENSIONS ARE IN INCHES 105 FRACTIONS ± 1/8			
FINISH BLAC	K ANODIZE] .xx ± .c	1 ANGLES ±.5° SURFACES = 125/			
SPEC MIL-A-8625, TYPE II, CLASS II			1. BREAK	ALL SHARP EDGES			
DRAWN BY: PERRITT				.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH	1	AFTER I	LATING			
OPPS APPR:	ANDERS	SON		RET DIM AND TOL PER 14.5M-2009			
QA APPR: LINDSAY			USED ON MODEL				
APPROVED: GILBERT			AW139				
SCALE 1:3 DATE 10		0/5/2010	SHEET 4 OF 10				

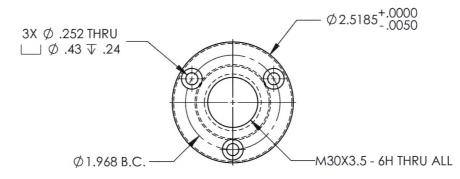
(-3)

BASE PLATE

	REVISIONS .									
REV ECR DESCRIPTION DATE INITIAL APPR										
1		-5A CH'D DIM WAS Ø2.5215-2.5208 IS Ø2.5185 +.000005, WAS Ø1.5764-1.5758 IS Ø1.5730-1.5724.	9/28/2012	RJC	SE					
2	15-0172	-5A CH'D DIM WAS M6 X 1433 ▼ .236 (3X) IS 3X Ø.252 THRU43 ▼ .24.	7/17/2015	RJC	JAG					
4	16-0250	-5A ADDED HEAT TREAT; ADDED FINISH SPEC.	12/5/2016	SM	JAG					









INSERT

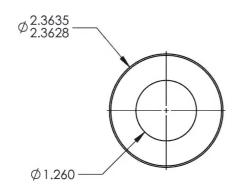
TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

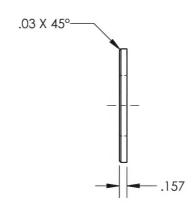
DWG NO RBW6522A00231-W142AJ-3T-5A 5

MAT'L 4140/4	142		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
HEAT RC 28-34				.xxx ± .005	FRACTIONS ± 1/8		
	OXIDE		.XX ± .01	ANGLES ±.5° SURFACES = 125/			
SPEC QMSI-	6.2.2, B.O. R	EV D	1. BREAK ALL SHARP EDGES				
DRAWN BY:			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED:	CLOUGH	1		AFTER PLA	TING		
OPPS APPR:	ANDERS	SON		ASME Y14.	F DIM AND TOL PER 5M-2009		
QA APPR:	LINDSAY	,			USED ON MODEL		
APPROVED:	GILBERT	GILBERT		AW139			
SCALE	1:2	DATE	10	/5/2010	SHEET 5 OF 10		

	revisions								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
4	16-0250	-5B CH'D MATERIAL WAS 1018/1020 IS A36/1018/1020 HR; ADDED FINISH SPEC.	12/5/2016	SM	JAG				







TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

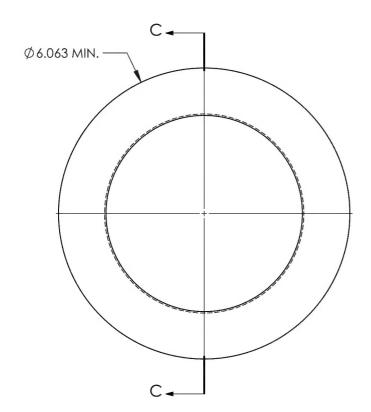
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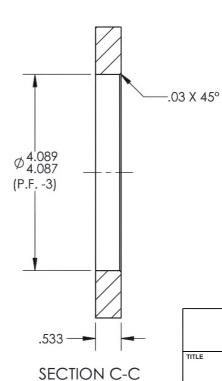
MAT'L A36/10	018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
HEAT TREAT FINISH BLACK			.XXX ± .005 FRACTIONS ± 1/8			
FINISH BLACK	OXIDE		.XX ± .01	ANGLES ±.5° SURFACES = 125/		
SPEC QMSI-6.2.2, B.O. REV D			1. BREAK ALL SHARP EDGES			
DRAWN BY:	PERRITT		.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH		AFTER PLATING 3. INTERPRET DIM AND TOL PER			
OPPS APPR:	ANDERSON		ASME Y14.	5M-2009		
QA APPR:	LINDSAY		USED ON MODEL			
APPROVED:	GILBERT		AW139			
SCALE	1:2 DAT	^{TE} 10	/5/2010	SHEET 6 OF 10		



COVER

	REVISIONS									
REV	ECR	DATE	INITIAL	APPROVED						
1		-7 ADDED MISSING HOLE DIM 6X Ø.394 AND CHAMFER .03 X 45°, CH'D DIM WAS Ø6.063 IS (Ø6.063).	9/28/2012	RJC	SE					
3	15-0336	-7 DELETED 6X Ø.394 HOLES, DELETED FLAT, DELETED .079 X 30° CHAMFER.	10/14/2015	RJC	JAG					
4	16-0250	-7 CH'D DIM WAS Ø4.1310/4.1301 IS Ø4.0890/4.0881 (P.F3).	12/5/2016	SM	JAG					
5	17-0044	-7 DELETED DIM'S Ø4.52, .18. CH'D DIM'S WAS .512 IS .533, WAS Ø4.0890/4.0881 {P.F3} IS Ø4.089/4.087 {P.F3}, WAS Ø6.063 IS Ø6.063 MIN.	4/14/2017	RJC	JAG					







TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

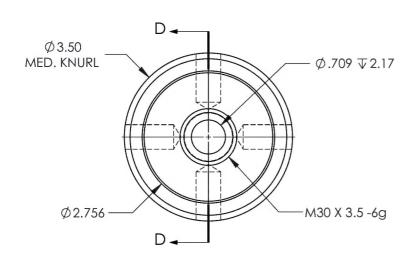
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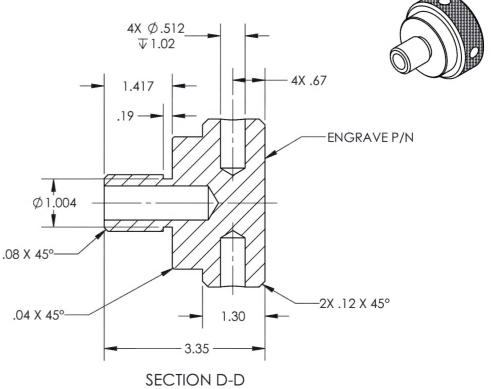
5

MAT'L NYLON				UNLESS OTHERWISE SPECIFIED			
HEAT TREAT				.XXX ± .005			
	FINISH				ANGLES ±.5° SURFACES = 125/		
SPEC	SPEC				L SHARP EDGES		
DRAWN BY:	DRAWN BY: PERRITT			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY			
CHECKED:	CLOUGH	1		AFTER PLATING 3. INTERPRET DIM AND TOL PER			
OPPS APPR:	ANDERS	NOS		ASME Y14.			
QA APPR:	LINDSAY	′		USED ON MODEL			
APPROVED:	GILBERT			AWS139			
SCALE	1:2 DATE 10			/5/2010	SHEET 7 OF 10		

PAD

	REVISIONS						
REV	ECR	DATE	INITIAL	APPROVED			
3	15-0336	-9 CH'D DIMS WAS Ø3.543 IS Ø3.50, WAS 1.299 IS 1.30, WAS 4X .669 IS 4X .67, WAS 3.346 IS 3.35, ADDED NOTE ENGRAVE P/N.	10/14/2015	RJC	JAG		
4	16-0250	-9 ADDED HEAT TREAT; ADDED FINISH SPEC.	12/5/2016	SM	JAG		
5	17-0044	-9 CH'D THREAD CALL OUT WAS 30 X 3.5 IS M30 X 3.5 -6g.	4/14/2017	RJC	JAG		



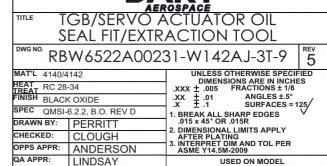


APPROVED:

SCALE

GILBERT

1:2



10/5/2010

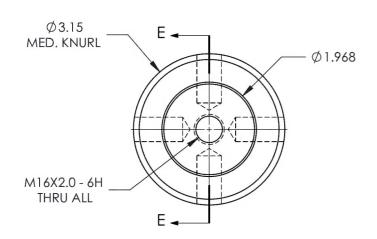
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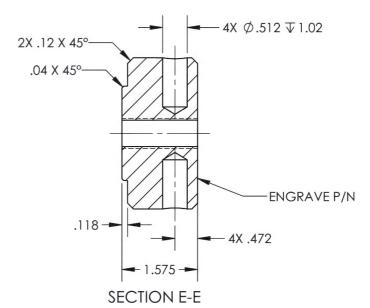
SHEET 8 OF 10

LARGE KNOB

	REVISIONS .							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
3		0336 -11 CH'D DIM WAS Ø3.150 IS Ø3.15, CH'D ENGRAVE NOTE WAS ENGRAVE T/N, S/N, MADE IN USA IS ENGRAVE P/N.		RJC	JAG			
4	16-0250	-11 ADDED HEAT TREAT; ADDED FINISH SPEC.	12/5/2016	SM	JAG			







SMALL KNOB

PART
AEROSPACE

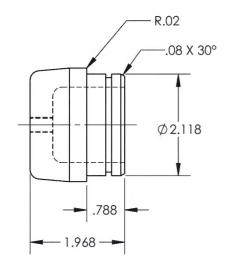
TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

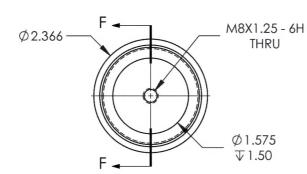
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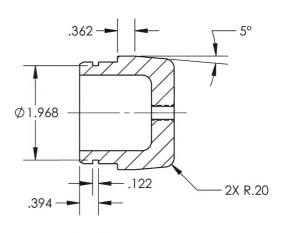
MAT'L 4140/4	142		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8					
HEAT RC 28-	34							
	OXIDE		XX ± .01 ANGLES ±.5° X ± .1 SURFACES = 125/					
SPEC QMSI-	6.2.2, B.O. R	EV D	1. BREAK ALL SHARP EDGES					
DRAWN BY:	PERRITT			.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY				
CHECKED:	CLOUGH			AFTER PLATING				
OPPS APPR:	ANDERSON			3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
QA APPR:	LINDSAY			USED ON MODEL				
APPROVED:	GILBERT			AW139				
SCALE	1:2	DATE	10	/5/2010	SHEET 9 OF 10			

revisions						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	









SECTION F-F

DART

TITLE TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL

DWG NO. RBW6522A00231-W142AJ-3T-13 5

MAT'L 6061			UNLESS OTHERWISE SPECIFIED					
HEAT TREAT			DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8					
FINISH BLACK	ANODIZE		.XX ± .01	ANGLES ±.5° SURFACES = 125/				
SPEC MIL-A-8	3625, TYPE	II, CLASS	П	1. BREAK ALL SHARP EDGES				
DRAWN BY:	PERRITT			.015 x 45° OR .015R - 2. DIMENSIONAL LIMITS APPLY AFTER PLATING - 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009				
CHECKED:	CLOUGH							
OPPS APPR:	ANDERSON							
QA APPR:	LINDSAY			USED ON MODEL				
APPROVED:	GILBERT		AW139					
SCALE .	1:2	DATE	10	/5/2010	SHEET 10 OF 10			

-13

CUP